

## Abstract

The invention concerns an arrangement for monitoring electrical equipment for the emergence of accidental arcs. The object is to more reliably recognize the occurrence of an arc on lines, cables and/or contact sites or in devices than has been possible with previously known solutions.

The proposed arrangement comprises at least one electrical conductor, which connects devices, subassemblies or circuit components of the piece of electrical equipment with one another, at least one light guide or optical fiber which guides the light arising in the formation of an arc to an optical/electrical transformer, as well as a monitoring and evaluating unit electrically connected with the transformer. The optical fiber envelops one or more wire cores of the above-mentioned electrical conductor and thus simultaneously forms the electrical insulation of a line or the shielding of a cable.